

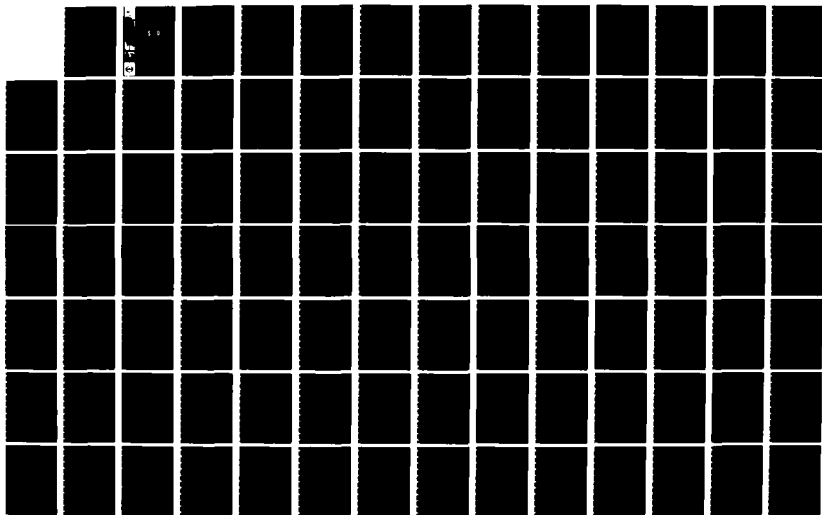
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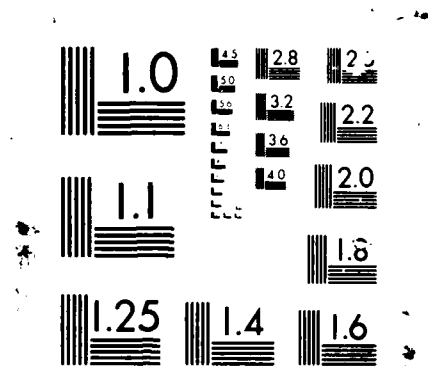
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A SOURCE MANUAL OF RAPTORS OCCURRING ON CORPS OF ENGINEERS LANDS IN THE PACIFIC NORTHWEST REGION

by

Tracy L. Fleming, Michael F. Passmore

US Army Engineer District, Walla Walla
City-County Airport, Building 602
Walla Walla, Washington 99362

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October 1986

Final Report

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<p>This report serves as a source manual of raptors occurring on Corps of Engineers lands in the Pacific Northwest. It consists primarily of a comprehensive literature review covering aspects of the biology of 35 species of eagles, hawks, falcons, vultures, and owls. The manual was developed to provide biologists and resource managers with background information to facilitate the application of sound raptor management practices on project lands. While the literature is cosmopolitan, references are applicable to species found in, but not limited to, the Pacific Northwest. The literature survey includes approximately 4,000 citations compiled through 1983.</p> <p>The manual also provides general guidelines on raptor management and survey techniques. An outline of techniques is given for habitat assessment, development, and management applicable to Federal lands, and recommendations are provided for management needs regarding various land use practices and recreational activities. Basic procedures for conducting</p> <p>(Continued).</p>					
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19. ABSTRACT (Continued)

raptor nesting surveys, migration counts, and winter surveys are outlined, and discussed. Raptor studies conducted on project lands in the US Army Engineer Division, North Pacific, are summarized, and future research and management needs are discussed.

PREFACE

This report was sponsored by the US Army Engineer (USAE) Division, North Pacific, Portland, Oreg.; the USAE District, Walla Walla, Walla Walla, Wash.; the USAE District, Portland, Portland, Oreg.; and the USAE District, Seattle, Seattle, Wash. The work was conducted as a special study to provide District biologists and resource managers with a source of information on raptor biology and management. Literature citations for the report were compiled through 1983.

Authors of this report were Mr. Tracy L. Fleming, Wildlife Consultant, Rosalia, Wash., and Dr. Michael F. Passmore, Environmental Resources Branch (NPWPL-ER), USAE District, Walla Walla. Mr. Fleming performed under contract to the USAE District, Walla Walla, during preparation of the report. Review and comments were provided by Mr. John McKern, Chief, NPWPL-ER, USAE District, Walla Walla; Mr. Lonnie Mettler, Wildlife Biologist, Natural Resources Management Branch, USAE District, Walla Walla; Mr. Chester O. Martin, Team Leader, Wildlife Resources Team, Wetlands and Terrestrial Habitat Group (WTHG), Environmental Laboratory (EL), USAE Waterways Experiment Station (WES); and Dr. Wilma A. Mitchell, Wildlife Biologist, EL. The report was prepared under the general supervision of Dr. Hanley K. Smith, Chief, WTHG; Dr. Conrad J. Kirby, Chief, Environmental Resources Division; and Dr. John Harrison, Chief, EL.

COL Allen F. Grum, USA, was the previous Director of WES. COL Dwayne G. Lee, CE, is the present Commander and Director. Dr. Robert W. Whalin is Technical Director.

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A SOURCE MANUAL OF RAPTORS OCCURRING ON CORPS OF ENGINEERS
LANDS IN THE PACIFIC NORTHWEST REGION

PART I: INTRODUCTION

In recent years, raptors have gone from a position of being vilified to one of being recognized for their aesthetic, scientific, and economic qualities. Largely due to the endangered species status accorded to the peregrine falcon (*Falco peregrinus*) and the bald eagle (*Haliaeetus leucocephalus*), interest in all raptors has increased, and many species are now recognized as excellent environmental barometers.

A need for a source manual was identified by the first author during extensive raptor research in the Pacific Northwest. Many Federal, state, and private sources have generated raptor literature and/or data, yet there are relatively few bibliographies of this material. Those that do exist are usually general in scope or deal with a single species. Additionally, Federal- and state-generated literature is often not published or readily available and may remain virtually unknown outside the agency that produced it.

The scope of this manual was originally planned to provide annotated references on nesting, food habits, and distribution of raptors, excluding accidents, that occur in the Pacific Northwest. However, it became apparent that existing literature did not allow even the most basic descriptions for many Northwest species. Therefore, it was necessary to modify the manual objective to that of providing a comprehensive list of literature citations covering important aspects of the biology of each species, regardless of where the research was conducted. This manual should help fill the existing information void and assist land managers in more efficiently applying sound raptor management techniques.

Use of the Manual

Parts II and III of this manual primarily outline techniques for habitat management and raptor surveys based on studies by Call (1978, 1979). Information on migration and winter surveys is also included from other sources. Both outlines are designed to provide a brief summary for review. The

publications by Call should be consulted for detailed discussions of most portions of the outlines. Part IV summarizes raptor work that has been conducted by the US Army Corps of Engineers in the Pacific Northwest. Literature cited in the text is given in Part V.

The major portion of the manual (Part VI) is a literature survey intended to provide biologists or resource managers with a current listing of pertinent information on raptor species. While the literature is cosmopolitan, references used are applicable to those species found in, but not confined to, the Pacific Northwest. References were compiled through 1983 for this manual. Species of raptors covered in this manual are listed phylogenetically below. This sequence is also followed in the bibliography.

Order FALCONIFORMES

Suborder CATHARTAE

Superfamily CATHARTOIDEA

Family Cathartidae

TURKEY VULTURE -- *Cathartes aura*

Suborder ACCIPITRES

Superfamily ACCIPITROIDEA

Family Accipitridae

Subfamily Pandioninae

OSPREY -- *Pandion haliaetus*

Subfamily Accipitrinae

WHITE-TAILED KITE -- *Elanus leucurus*

BALD EAGLE -- *Haliaeetus leucocephalus*

NORTHERN HARRIER -- *Circus cyaneus*

SHARP-SHINNED HAWK -- *Accipiter striatus*

COOPER'S HAWK -- *Accipiter cooperii*

NORTHERN GOSHAWK -- *Accipiter gentilis*

SWAINSON'S HAWK -- *Buteo swainsoni*

RED-TAILED HAWK -- *Buteo jamaicensis*

FERRUGINOUS HAWK -- *Buteo regalis*

ROUGH-LEGGED HAWK -- *Buteo lagopus*

GOLDEN EAGLE -- *Aquila chrysaetos*

Suborder FALCONES
Superfamily FALCONOIDEA
Family Falconidae
Tribe Falconini

AMERICAN KESTREL -- *Falco sparverius*
MERLIN -- *Falco columbarius*
PEREGRINE FALCON -- *Falco peregrinus*
GYRFALCON -- *Falco rusticolus*
PRAIRIE FALCON -- *Falco mexicanus*

Order STRIGIFORMES

Family Tytonidae

COMMON BARN OWL -- *Tyto alba*

Family Strigidae

FLAMMULATED OWL -- *Otus flammeolus*
WESTERN SCREECH OWL -- *Otus kennicottii*
EASTERN SCREECH OWL -- *Otus asio* - not found in the Pacific
Northwest, but literature included with *O. kennicottii*.
GREAT HORNED OWL -- *Bubo virginianus*
SNOWY OWL -- *Nyctea scandiaca*
NORTHERN HAWK-OWL -- *Surnia ulula*
NORTHERN PYGMY-OWL -- *Glaucidium gnoma*
BURROWING OWL -- *Athene cunicularia*
SPOTTED OWL -- *Strix occidentalis*
BARRED OWL -- *Strix varia*
GREAT GRAY OWL -- *Strix nebulosa*
LONG-EARED OWL -- *Asio otus*
SHORT-EARED OWL -- *Asio flammeus*
BOREAL OWL -- *Aegolius funereus*
NORTHERN SAW-WHET OWL -- *Aegolius acadicus*

Order PASSERIFORMES

Suborder PASSERES

Family Corvidae

COMMON RAVEN -- *Corvus corax*

All references are arranged alphabetically by author with the exception of anonymous titles, which are listed first. Multiple titles by one or more authors are listed chronologically. Country of origin is included for

lesser known serials. Single-sighting notes and popular articles are generally not listed except when they cite unusual observations or information not contained elsewhere. Translated titles are enclosed in brackets. Some untranslated, minor-language references and some from extremely obscure serials were excluded because of the unlikelihood that they could be obtained or translated without extreme difficulty.

The section on bald eagles has been restricted to titles from the West and Northwest. Additional references on this species from other geographic areas can be obtained from the National Wildlife Federation (NWF) Raptor Information Center (RIC) bibliography on bald eagles. Lesser known titles and literature on owl species not occurring in the Pacific Northwest may be located in the NWF-RIC bibliography on owls of the world.

For convenience, references on the eastern screech owl (*Otus asio*) and the western screech owl (*Otus kennicottii*) have been combined. These species, often considered under the name common screech owl, are known to overlap ecologically and geographically and to hybridize in the wild. The white-tailed kite (*Elanus leucurus*) is treated under that name in this manual although it is now considered a subspecies of the black-shouldered kite (*Elanus caeruleus*) (A.O.U. 1982). The common raven (*Corvus corax*) is included in the literature because behavioral attributes of this species permit its classification as a "functional raptor."

Sources of Information

Allen et al. (1980), in a bibliography on eagles in Washington State, listed the following bibliographies that cover Pacific Northwest raptor species.

- ALLEN, G. T., R. L. KNIGHT, and M. V. STALMASTER.
1980 An Annotated Bibliography of Bald and Golden Eagles in Washington. Washington Department of Game, Olympia.
66 pp.
- ANDERSON, S. R. B.
1978 Bibliography on the Golden Eagle, *Aquila chrysaetos*.
Raptor Research Foundation, Provo, Utah. 15 pp.

- CLARK, R. J., D. G. SMITH, AND L. H. KELSO.
1978 Working Bibliography of Owls of the World. NWF Scientific/Technical Series, No. 1. Raptor Information Center, National Wildlife Federation, Washington, D.C. xiv + 319 pp.
- KNIGHT, R. L.
1978 An Annotated Bibliography of Washington Raptors and the Common Raven. Washington Department of Game, Olympia. 68 pp.
- KNIGHT, R. L., L. E. STREAM, and R. H. HARKINS.
1978 A Working Bibliography on the Peregrine Falcon (*Falco peregrinus*) in Washington State. Washington Department of Game, Olympia. 25 pp.
- LINCER, J. R., W. R. CLARK, and M. N. LeFRANCE, JR.
1979 Working Bibliography on the Bald Eagle. NWF Scientific/Technical Series, No. 2. Raptor Information Center, National Wildlife Federation, Washington, D.C. xi + 244 pp.
- OLENDORFF, R. R., and S. E. OLENDORFF.
1968 An Extensive Bibliography on Falconry, Eagles, Hawks, Falcons and Other Diurnal Birds of Prey. (4 parts) Privately printed. 286 pp.

The following books will provide an excellent background on raptor ecology and basic life histories of raptors found in the Pacific Northwest and elsewhere. These sources should be among the foundations of any raptor library.

- BEEBE, F. L.
1974 Field Studies of the Falconiformes of British Columbia. Occasional Paper Series No. 17. British Columbia Provincial Museum, Victoria. 163 pp.
- BROWN, L. H.
1977 Eagles of the World. Universe Books, New York, New York. 244 pp.
- BROWN, L. H.
1976 Birds of Prey: Their Biology and Ecology. A & W Publishers, Inc., New York, New York. 256 pp.
- BROWN, L. H., and D. AMADON.
1968 Eagles, Hawks and Falcons of the World. (2 volumes) McGraw-Hill Book Company, New York, New York. 945 pp.
- BURTON, J. A.
1973 Owls of the World, Their Evolution, Structure and Ecology. E. P. Dalton and Company, New York, New York. 216 pp.
- CADE, T. J.
1982 The Falcons of the World. Comstock/Cornell University Press, Ithaca, New York. 188 pp.

- JOHNSON, D. R.
1981 The Study of Raptor Populations. The University of Idaho Press, Moscow, Idaho. 85 pp.
- KARALUS, K. E., and A. W. ECKERT.
1974 The Owls of North America. Doubleday, Garden City, New York. 278 pp.
- NEWTON, I.
1979 Population Ecology of Raptors. T. and A. D. Poyser, Berkhamsted, England, and Buteo Books, Vermillion, South Dakota. 399 pp.
- SPARKS, J., and T. SOPER.
1970 Owls, Their Natural and Unnatural History. Taplinger Publishing Company, New York, New York. 206 pp.

In addition to these bibliographies and major references, other sources of raptor expertise and information include:

The Raptor Information Center (RIC)
National Wildlife Federation
1412 Sixteenth Street, N.W.
Washington, D.C. 20036

The Raptor Management Information System (RMIS)
Dr. Richard R. Olendorff, Endangered Species Coordinator
US Bureau of Land Management
2800 Cottage Way
Sacramento, California 95825

The Raptor Research Foundation (RRF)
Dr. Gary E. Duke, Treasurer
Department of Veterinary Biology
College of Veterinary Medicine
University of Minnesota
St. Paul, Minnesota 55101

RRF publishes a quarterly journal, Raptor Research, with articles and notes on all birds of prey.

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British Columbia Provincial Museum	University of Montana
Humboldt State University	University of Wisconsin

Idaho Department of Fish and Game

Idaho State University

Nature Conservancy

Oregon Department of Fish and Wildlife

Oregon State University

Pacific Power and Light Company

Portland State College

Seattle City Light

US Bureau of Land Management

USDA Forest Service

US Department of Energy

US Fish and Wildlife Service

US National Park Service

Washington Department of Ecology

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PART II: GUIDELINES FOR RAPTOR MANAGEMENT

While there are many references to habitat management for individual raptor species, two manuals provide an excellent overview of habitat management:

CALL, M. W.

1979

Habitat Management Guides for Birds of Prey. Technical Note TN 338. USDI-Bureau of Land Management, DSC, Denver, Colorado. vi + 70 pp.

GEER, T. A., editor.

1978

Birds of Prey Management Techniques. A symposium sponsored by the International Association of Falconry and Conservation of Birds of Prey. 160 pp.

Call (1979) defines habitat management of raptors to "mean either (1) the manipulation of uses and activities in an area so that birds of prey will be either benefited or at least not seriously adversely affected, or (2) the physical change or development of the habitat such that it is more suited to the needs of one or more species, e.g., creating artificial nest sites or platforms where no suitable ones are present." Habitat management requires a basic understanding of (1) food and habitat requirements and (2) bird behavior. The goal in land management may not necessarily be to maximize numbers of all raptors; instead, emphasis may be placed on maintaining the diversity of wild populations that can be sustained in existing habitats.

The outline provided in the following pages is primarily a synopsis of Call's manual. Both of the publications cited above are readily available and should be consulted for detailed information on raptor management.

Habitat Management

I. Baseline Information

Knowledge of the following parameters is desirable for assessing raptor habitat.

- A. Distribution and abundance of raptor species in the region.
- B. Importance of snags or large mature trees (for roosting, perching, sunning, preening, nesting, etc.).
- C. Nest sites and nesting activity.
 1. Kinds and sizes of trees used.
 2. Most common location of nests in trees.
 3. Density of trees at nest site and in surrounding area.

4. Use of secondary canopies or understory trees.
5. Availability and use of suitable alternate nest sites.
6. Probability of renesting if first nesting attempt fails.
- D. Approximate territory size in a given habitat type.
- E. Interspecific competition and/or tolerance.
- F. Distribution and relative abundance of prey species.
- G. Water requirements.
- H. Actual and potential human disturbance to raptors.

II. Maintenance of Existing Habitats

- A. Protect and maintain active and alternate nest sites.
- B. Avoid disturbance and removal of roosting sites.
- C. Protect crucial habitat.
 1. Identify significant use areas for nesting, roosting, or feeding to which the species are largely dependent for their survival.
 2. Assess the distribution, numbers, and availability of required prey; location of required habitat components (for nesting, roosting, feeding); and the influence of various human activities to determine how much area within a specific habitat type should be protected against conflicting use.
 3. Be conservative in bird's favor, if information is lacking.
 4. Do not indiscriminately advertise specific nesting/roosting sites.
- D. Manage prey bases.
 1. The most productive management of prey, as with all wildlife, comes from management of the habitat to produce the desired fauna.
 - a. Prioritize management for prey species of state and Federal status (endangered/threatened).
 - b. Establish careful use and monitoring of pesticides, rodenticides, and other toxic substances.
 - c. Maintain habitat in good condition for overall or desired prey species.
 2. Provide artificial perches.
 - a. Use in areas where natural perches are scarce.
 - b. Locate where they provide best access to prey.
 3. Develop reliable methods of assessing prey species habitat or populations--necessary prerequisites to raptor population manipulation.

- a. Conduct prey population surveys in vicinity of current and previous nests.
- b. Evaluate habitat use by prey species.
- c. Determine influence of land use practices on prey abundance and raptor population density and abundance.

III. Management of Historic Raptor Eyries and Crucial Habitat

- A. Give priority to inhabited or utilized sites.
 - 1. Protect nests and adjacent areas.
 - 2. Maintain habitat and conditions.
- B. Monitor historic sites.
 - 1. Monitor for use.
 - 2. Monitor for potential adverse land use activities, particularly in the case of historic sites of endangered/threatened species that have potential of being used in the future.
- C. Acquisition of crucial habitats.

The preservation of sufficient habitat in undegraded condition is critical for a number of species. Long-term effectiveness and protection can be accomplished by the following procedures:

- 1. Bring required acreages into public ownership by Federal purchase or land exchange.
- 2. Transfer ownership to private conservation organizations through direct purchase.
- 3. Acquire ownership through purchase by state wildlife agency.
- 4. Enter into cooperative agreements with private landowners.

IV. Habitat Development

- A. Use of artificial nesting structures.
 - 1. Use when all other life requirements except suitable nesting sites are available.
 - 2. Artificial structures should be used with discretion after management objectives for the area have been established and, when used, should be made to look as natural as possible.
- B. Construction of artificial nesting structures.
 - 1. Cliff-nesting species.
 - a. Provide ledges and holes.
 - b. Install ledges and boxes.
 - 2. Tree-nesting species.
 - a. Fence around nest trees to prevent destruction by livestock.
 - b. Prop nests that are in danger of falling.

- c. Install wire baskets in trees and fill with appropriate nest materials.
 - d. Attach platforms to trees.
 - e. Top snags with platform or nest support.
 - f. Totally artificial nest.
 - (1) Pole with platform.
 - (2) Tripod with platform.
 - (3) Platform on powerline towers.
- 3. Cavity-nesting species.
 - a. Areas of use: trees, dirt banks, cliffs, poles, buildings.
 - b. Types.
 - (1) Nest boxes.
 - (2) Barrels.
- 4. Species nesting underground: artificial burrows.
- C. Use of man-made structures.
 - 1. Power poles and towers are most common and have been modified by addition of platforms or nest boxes.
 - 2. Other structures include abandoned quarries, duck blinds, channel markers, pilings, railroad abutments, buildings, windmills, silos, and mines.

Management Considerations for Land Use Practices

- I. Forestry Practices
 - A. Determine importance of the forested area to nesting raptors.
 - B. Identify major nesting/roosting sites.
 - C. Preserve mature trees and snags.
 - D. Coordinate raptor management with forestry operations.
- II. Livestock Grazing Operations
 - A. The following situations effect changes in vegetation composition, density, and structure.
 - 1. Overgrazing.
 - 2. Trampling.
 - 3. Loss of trees by rubbing.
 - 4. Erosion.
 - B. Livestock operations will often produce changes in composition and populations of prey species occurring in grazed habitat.

III. Revegetation Projects

- A. Leave peripheral and lone trees near valley margins in range rejuvenation projects.
- B. Determine probable effects of vegetation conversion projects on various species. Give management priorities to those species whose local, regional, or national populations are declining or existing at low levels.
- C. Where possible, retain areas of native habitat in scattered patches within the planned vegetation treatment area.
- D. Negotiate beneficial wildlife stipulations with private landowners on their land whenever exchange of use of public lands is involved.

IV. Mineral Exploration, Mining, and Associated Activities

- A. Major nesting season conflicts.
 - 1. Disturbance of adults and young.
 - 2. Destruction of nests and foraging areas.
 - 3. Inflexible reclamation policies that do not allow for postmining habitat to be reclaimed.
- B. Major winter conflicts.
 - 1. Destruction of roost sites.
 - 2. Disturbance of major feeding areas.
- C. Management recommendations.
 - 1. Inventory nesting, roosting, and feeding areas.
 - 2. Consult with appropriate land management agencies.
 - 3. Provide basic instruction on raptor awareness and legal implications of disturbance.
 - 4. Avoid operations near active nests.
 - 5. Advise appropriate state and Federal personnel of protected birds and nests that may be adversely disturbed by operations.
 - 6. In the case of bald eagle roosts, place stipulations on construction proposals that will permit undisturbed use of roosts at critical times.

Restrictions on Human Activities

I. Shooting/Hunting

- A. Implement firearms closure for sites where raptors are known to concentrate or in areas where peripheral, threatened/endangered, or declining populations occur.
- B. Shooting/disturbances along powerlines.
 - 1. Locate powerlines away from roads.
 - 2. Prohibit road construction adjacent to powerlines.
 - 3. Shift to underground cables when possible.
 - 4. Provide public education.

II. Rock Climbing

Close known sites, especially those used by threatened/endangered species, from 1 February to 1 August.

III. Recreational Use

- A. Potential adverse activities near nest sites: hiking, backpacking, photography, camping, picnicking, snowmobiling, skiing, and using ORV's.
- B. Management.
 - 1. Restrict adverse activities near nest sites. The nesting period is most crucial. Restrictions on adjacent roosts and feeding sites may also be necessary.
 - 2. Locate trails, campgrounds, rest areas, etc., away from nest sites, roosts, and feeding areas.
 - 3. Solicit assistance from private landowners as appropriate and necessary to accomplish goals.

IV. Low-Flying Aircraft

- A. Do not keep adults away from nest longer than absolutely necessary to complete research or survey.
- B. Do not hover over nest when young birds would be unduly exposed to cold, heat, or moisture.

V. Raptor Surveys and Research Activities

- A. Apprise new research personnel in necessary precautions (see Call 1978, Fyfe and Olendorff 1976).
- B. Personnel should become thoroughly knowledgeable on behavioral characteristics of species to be surveyed.
- C. Survey and research activities should be coordinated with all agencies, groups, or individuals that may be interested in the study species in the research area.
- D. Do not be afraid to take the initiative in coordinating work between conservation agencies or private conservation groups.

Public Information and Education

I. Information

- A. Disseminate mass media information on the values of raptors.
- B. Provide information at projects through the use of brochures, signs, and interpretive programs.

II. Law Enforcement

- A. All birds of prey are under Federal protection.
- B. Most states have specific laws protecting raptors.

PART III: RAPTOR SURVEY TECHNIQUES

The following general outline for conducting raptor surveys is summarized from Call (1978). That guide should be consulted for in-depth details on aspects of species-specific surveys. All techniques described below are applicable to surveying raptors in the northwestern United States.

Procedures for Conducting Nesting Surveys

I. Locating and Examining Nesting Habitats

A. Map and photo studies.

1. Determine potential nest sites for various species by use of appropriate maps and aerial photographs. Knowledge of nesting requirements of each species is essential before an evaluation can be made.
2. Plan aerial and/or ground survey routes to potential nest areas.

B. Aerial surveys.

1. Make flights over delineated map areas. Note on maps all observed nests and areas to be examined from the ground.
2. Obtain aerial photos of species or unique topographic features being used as nest sites.
3. Plan a flight to revisit active nests when young are present. Areas will vary depending on weather and latitude; adjust phenological events accordingly. Nesting success can be determined for many nests during this flight.

C. Ground surveys.

1. Use best access routes observed from air or maps. Visit all nests and potential nest habitat.
2. Examine all active nests and potential habitat until satisfied as to species present. If prior to hatching, observations should be made with binoculars. Closer approaches may be made after hatching. Use data form to record pertinent data for each nest located.
3. All old nests should be mapped. These may be alternative nests for active pairs or nests used by other raptor species in subsequent years.
4. Photographs of the general nest area should be taken during the first visit. If young are present, a close approach may be made to obtain a photographic record of the number of birds present and their relative condition and age.

D. Timing of surveys.

1. Timing depends on phenology of the species for which information is desired. Visits should be made one-half to three-fourths of the way through the nesting sequence. Avoid disturbance of adults, especially during early courtship, nest building, egg laying, and incubation. Some birds will abandon the nest after only one visit during the egg laying or incubation phases.
2. Average nesting sequences may be used as general guides. The timing of sequences may vary depending on latitude, seasonal variations in weather, elevation, and possibly other factors.

E. Nest record. Detailed records of each nest site are invaluable. An example of a nest record form is provided at the end of this section.

II. Precautions at Nest Sites

- A. Adults should not be flushed from nests, especially when on eggs, unless it is necessary to collect phenology or reproductive data. If adults flush, limit stay to 5 min or less.
- B. Sprinkle naphthalene crystals (mothballs) around the nest site and along entrance trails to destroy human scent and decrease chances of predation by ground predators. This is especially important if adults are forced from the nest.
- C. Do not flush adults from a nest during rainstorms or in extremely cold, windy, or hot weather. The death of embryos or young may occur within minutes due to excessive cold or heat.
- D. Be sure that birds are aware of your approach to the nest. Do not startle incubating or brooding adults because they may spring from the nest, knocking out young or eggs.
- E. Dehydration of eggs may take place if left unprotected for more than a few minutes.
- F. If adults are kept away from the nest for extended periods, young may miss essential feedings and become weakened.
- G. Be very careful in approaching nests where young are almost old enough to fledge. They may become injured, lost, or abandoned if fledged prematurely.
- H. Do not handle eggs or young unless necessary when banding, weighing, or collecting other data.

III. Special Precautions for Endangered, Threatened, or Sensitive Species

- A. Nests of endangered raptor species should not be visited unless accompanied by an authority on the species. They should be observed with binoculars or spotting scope from distances that do not disturb adults.

- B. Special precautions should be used when visiting nests of species known to be declining in numbers, either locally or nationally.
- C. Species that are known to be highly sensitive to the presence of humans and those that readily abandon nests (such as ferruginous hawks) should not be visited until young birds can be seen in the nest.
- D. Nest locations of endangered or threatened species should be revealed only to the appropriate state, Federal, or recognized research authorities.
- E. All bald eagles and golden eagles are fully protected under the Bald Eagle Protection Act. All nesting surveys of these species must be conducted with minimal disturbance to the birds.

Nocturnal Species Nest Surveys

Because of their nocturnal habits, it is difficult to locate owls and their nests, especially the smaller more secretive species. Owls may nest in holes or cavities in cliffs or trees, in buildings, in nests made by other birds, on the ground, or in holes in the ground. It may be advisable to survey for owls by habitat types, i.e., on the ground, in trees, or in other birds' nests. One should also watch for pellets near potential nest sites. These are often an important clue to the presence of owls or other raptors. In surveying for the presence of owls and their nests, the following procedures are recommended.

I. Procedures for Tree Nesting Species

- A. Drive all available roads in the survey area and examine all old stick nests with binoculars or a spotting scope for the presence of owls sitting on nests. If no roads are present, walk close enough to examine stands of woody vegetation.
- B. Make a systematic search of coniferous stands to detect the presence of owls or old nests suitable for their use. Examine junipers individually or in clumps.
- C. Watch for woodpecker and flicker holes or any type of natural cavity in living or dead trees. Use a club to hit any tree with a likely looking hole. Strike the trunk numerous times, watching for the appearance of a small owl. If an owl does not appear, the hole is probably not being used for nesting or roosting, but this cannot be absolutely determined without visual inspection. However, climbing to individual holes is time consuming and usually not worth the effort.

II. Procedures for Ground Nesting Species

- A. Burrowing owl: Drive all available roads while watching for ground squirrel (*Spermophilus* spp.) or prairie dog (*Cynomys* spp.) colonies. Examine all colonies with binoculars for presence of owls, which often sit on dirt mounds. Burrowing owls also nest in isolated holes that may occur anywhere.
- B. Short-eared owl: These owls may be found in grassy habitat, sagebrush, marshes, wet meadows, and agricultural areas. They are most active at dusk and dawn but will hunt during the day when cloudy. Since they are so widespread, it is generally feasible to survey only the more likely locations. Walking or driving through grassy habitats produces the best results.
- C. Snowy owls: Snowy owls are readily found with the use of aircraft during the nesting season. Their white forms are especially easy to observe once one becomes trained to look for them.

III. Taped Calls

Obtain taped owl calls and play them during appropriate crepuscular or nocturnal periods to solicit responses from specific species. For a general survey, play calls from the smaller species first. If the calls of larger owls are played first, smaller species may be intimidated and not respond since they occasionally serve as prey for larger species. Driving country roads and stopping every one-quarter mile to play tapes will often yield much information, but several procedures may need to be tested to determine the best method for a particular species and region. A nest is usually in the vicinity of a responding owl, but there is no way to differentiate between mated and unmated birds that respond. Taped owl calls may also be made to locate nests during daylight hours; however, caution should be used because the tapes may attract aerial predators (primarily accipiters) capable of destroying adult or young owls.

Migration Surveys

Raptor migration surveys generally consist of counts of the species and numbers of raptors passing observation sites during the fall or, less often, spring. Comparisons are made of comparable time periods from year to year to obtain relative indexes of abundance. Data on weather are usually kept and correlated with flights. Characteristics such as age, sex, and color phase are often recorded and can be obtained either visually or by trapping. Areas with less defined migrations can be surveyed by vehicle. Routes are established and driven every 1 to 3 weeks, with changes in species and numbers noted. All other factors are the same as those at geographic observation sites.

Winter Surveys

Winter surveys are usually conducted by boat, aircraft, or car. Boat surveys have most often been used for winter bald eagle censuses and have easily discerned restrictions, especially in very cold weather. Aircraft have been primarily used for bald and golden eagle surveys, often in conjunction with waterfowl or big game surveys. Problems with aircraft surveys are expense and difficulty in detecting and identifying smaller raptors. Vehicle surveys (roadside surveys) are the most common winter survey technique. Fixed routes allow collection of such data as species, numbers, age, sex, color phase, activity, prey, and habitat utilization; these surveys also allow comparisons between habitats and years.

A search of relevant literature revealed a general lack of standardized winter censusing methodology for most species. Olendorff (1973) felt that it was virtually impossible to determine crude densities of migrating and wintering birds of prey on large enough land areas to adequately quantify population levels in shrub-steppe habitats because: (1) the census cannot be done quickly enough to avoid resightings, (2) the different activity patterns of species depend on time of day, and (3) sudden changes in wind conditions characteristic of weather in arid grasslands affect the result of censuses.

Olendorff (1973) felt that these limitations reduce the effectiveness of census methods in determining relative ecological densities in different habitats during several consecutive years. However, comparisons could be made between habitats and between years. In addition, such censuses would potentially yield information on birds of local nesting populations which may also overwinter, especially if the birds were color-marked. Olendorff (1973) suggested that censuses be made every 1 to 3 weeks along at least one route in each habitat.

NEST RECORD FORM

Species _____ Nest No. _____
County _____ Twp. _____ R. _____ Sec. _____
Universal Transverse Mercator (UTM): North _____
East _____
USGS map name _____ Landowner _____
Directions to nest _____

NEST SITE INFORMATION

Nest structure (tree, cliff, building, other) _____
Nest structure height _____ If cliff, length _____
Elevation at structure _____ Exposure of structure _____
If tree, species _____ Nest tree condition (alive, dead, dying) _____
Nest tree DBH _____ Diameter at nest height _____
Canopy height _____ Approximate # of other nest sites available _____
Alternate nests (number, distance, direction) _____
Access to nest (climbing spurs, rappel, walk-in, other) _____
Time to climb nest structure _____

NEST INFORMATION

1st year nest built or used _____ Height _____ Exposure _____
If cliff, overhang _____ If cavity, hole dimensions _____
Nesting material (plant species, other) _____
Nest diameter at top _____ Nest diameter at bottom _____
Outside nest length _____ Diameter of nest bowl _____
Depth of nest bowl _____ Largest stick in nest (diam. × length) _____

NEST SITE HABITAT INFORMATION

Habitat of nest structure area _____
Size of nest structure habitat (if defined, such as woodlot) _____
Visible land use (from nest):
N. _____
S. _____
E. _____
W. _____
Distance to edge (if defined, such as woodlot) _____
Distance to permanent water _____ Water type and name (river, stream,
lake, pond, marsh, swamp) _____
Distance to road: Interstate _____ Primary _____ Secondary _____
Distance to human habitation _____
Type of human habitation _____

Adults: band # 1. _____ Sex _____ Date banded _____
2. _____

How trapped: _____

Young:	band #	1.	Sex	Date banded
		2.		
		3.		
		4.		
		5.		
		6.		
		7.		
		8.		
		9.		
		10.		

VISITS TO NEST

Date	Situation (eggs, young adult(s), prey)
11/1/78	1 egg
11/2/78	1 egg
11/3/78	1 egg
11/4/78	1 egg
11/5/78	1 egg
11/6/78	1 egg
11/7/78	1 egg
11/8/78	1 egg
11/9/78	1 egg
11/10/78	1 egg
11/11/78	1 egg
11/12/78	1 egg
11/13/78	1 egg
11/14/78	1 egg
11/15/78	1 egg
11/16/78	1 egg
11/17/78	1 egg
11/18/78	1 egg
11/19/78	1 egg
11/20/78	1 egg
11/21/78	1 egg
11/22/78	1 egg
11/23/78	1 egg
11/24/78	1 egg
11/25/78	1 egg
11/26/78	1 egg
11/27/78	1 egg
11/28/78	1 egg
11/29/78	1 egg
11/30/78	1 egg
12/1/78	1 egg
12/2/78	1 egg
12/3/78	1 egg
12/4/78	1 egg
12/5/78	1 egg
12/6/78	1 egg
12/7/78	1 egg
12/8/78	1 egg
12/9/78	1 egg
12/10/78	1 egg
12/11/78	1 egg
12/12/78	1 egg
12/13/78	1 egg
12/14/78	1 egg
12/15/78	1 egg
12/16/78	1 egg
12/17/78	1 egg
12/18/78	1 egg
12/19/78	1 egg
12/20/78	1 egg
12/21/78	1 egg
12/22/78	1 egg
12/23/78	1 egg
12/24/78	1 egg
12/25/78	1 egg
12/26/78	1 egg
12/27/78	1 egg
12/28/78	1 egg
12/29/78	1 egg
12/30/78	1 egg
12/31/78	1 egg

[illegible]

COMMENTS:

[illegible]

PART IV: NORTH PACIFIC DIVISION INVOLVEMENT IN RAPTOR STUDIES

Major Studies

The Corps of Engineers has been involved in raptor studies throughout the North Pacific Division. In addition to the present report, four raptor-oriented reports were funded by the US Army Engineer Districts, Walla Walla, Portland, and Seattle, and one other (Fleming 1981b) was partially funded by the Corps. These studies are listed below:

CRAIGHEAD, J. J., and L. CRAIGHEAD.

1979 An Assessment of the Ecological Impacts of the Libby Additional Units and Reregulating Dam (LAURD) Project and Libby Dam on the American Bald Eagle. US Army Corps of Engineers, Seattle District. 140 pp.

FLEMING, T. L.

1981a A Nesting Raptor Survey of the Lower Snake and Columbia Rivers, Lewiston, Idaho, to Umatilla, Oregon. US Army Corps of Engineers, Walla Walla District. 282 pp.

1981b A Three-winter Raptor Survey of the Columbia Basin, Washington/Oregon. US Army Corps of Engineers, Portland District, Water Power Resources and Bureau of Land Management. 143 pp.

1983 Analysis of Raptor Food Habits Along the Lower Snake River, Washington, Spring/Summer, 1982. US Army Corps of Engineers, Walla Walla District. 71 pp.

US ARMY CORPS OF ENGINEERS.

1979 The Northern Bald Eagle (*Haliaeetus leucocephalus alascanus*): A Literature Survey. USACE-Environmental Resources Section, Seattle District. 86 pp.

Two of these studies dealt with bald eagles. The objective of the Corps literature survey was to provide a resource tool for better understanding of this bird, especially regarding the impact of Civil Works projects and related human activities. Emphasis was given to management techniques employed to help conserve bald eagle populations.

The report by Craighead and Craighead (1979) was the result of a 9-month study of bald eagles on the Kootenai River in western Montana during 1978 and 1979. This study was conducted to assess the impacts on the bald eagle from construction and operation of a proposed reregulating dam. Feeding habits and habitat utilization of migrant and wintering eagles were investigated along a 10-mile (16-km) stretch of river downstream of Libby Dam.

Fleming (1981a) described the results of a nesting raptor survey on the lower Snake and Columbia Rivers. A total of 212 nests of 11 species were identified. Food habits and production figures were also discussed. The results of three winters of raptor surveys in the Columbia Basin of Washington and Oregon were summarized by Fleming (1981b). The major objective was to compare species, numbers present, and habitat utilization of irrigated and dryland agriculture with areas of native vegetation. Other parameters were noted, and 5,389 raptors of 23 species were seen during 18,956.8 miles (30,500 km) of surveys. Fleming (1983) discussed food habits (pellets, prey remains) of hawks, falcons, and owls along the lower Snake River, Washington, during the spring and summer of 1982. Results were compared with prey items collected from the same area in spring and summer 1981.

Minor References

In addition to the above studies, a number of other references to raptors are contained in Corps-generated literature. It is difficult to characterize these because they vary greatly in length and content. Most involve limited areas and are the results of observations made during broad-based wildlife inventories and, as such, are much less comprehensive than specific raptor surveys. Examples from the Pacific Northwest include:

- ASHERIN, D. A., and J. J. CLAAR.
1976 Raptors. Pages 31, 192-200 in: Inventory of Riparian Habitats and Associated Wildlife Along Columbia and Snake Rivers: Volume III A, Snake River - McNary Reservoir. US Army Corps of Engineers, North Pacific Division. 556 pp.
- ASHERIN, D. A., and M. L. ORME.
1978 Birds of Prey. Pages 36-37, 143-162 in: Inventory of Riparian Habitats and Associated Wildlife Along the Lower Clearwater and Dworshak Reservoir. US Army Corps of Engineers, North Pacific Division. 476 pp.
- ERICKSON, A. W., Q. J. STOBBER, J. J. BRUEGGEMAN, and R. L. KNIGHT.
1977 Raptors. Pages 259, 367-376, 418-419 in: An Assessment of the Impact on the Wildlife and Fisheries Resource of Rufus Woods Reservoir Expected from the Raising of Chief Joseph Dam from 946 to 956 Ft. M.S.L. Prepared for the Colville Tribal Council and the US Army Corps of Engineers, Seattle District. 515 pp.

KARDONG, K. V.
1974

Birds of Prey. Page 12, Figures 5, 6, and 7 in: Snakes Along the Palouse...and Other Wildlife. Lyons Ferry-Palouse Falls Trail System, a study of indigenous poisonous snakes and environmental effects of the trail. US Army Corps of Engineers, Walla Walla District. 17 pp.

MORSE, T. E.
1980

Status and Habitat Associations of Birds of Prey. Pages 54-61 in: Columbia Basin Water Withdrawal Environmental Review: Wildlife. US Army Corps of Engineers, Portland District. 73 pp. + appendices.

TABOR, J., B.
1981

THOMPSON, C. TURNER, R. STOCKER, C. DETRICK, and J. HOWERTON. Study of Impacts of Project Modification and River Regulation on Riparian Habitats and Associated Wildlife Along the Columbia River, Washington. Washington Department of Game, Olympia. 770 pp.

Future Research Needs

In recent years raptors have become internationally recognized as excellent environmental barometers. For this reason, it is important for land management agencies to have adequate raptor information on the lands they administer. Call (1978) gave the following reasons why land managers need raptor nest site and other habitat use data:

- (1) To be knowledgeable on important nesting, feeding, wintering, and roosting areas in order to give adequate consideration to these areas in land management decisions.
- (2) To be able to determine and monitor the effects of man's activities on nesting or other life phases of raptors.
- (3) To ascertain general trends in raptor populations and productivity by species, and to determine the probable reasons for those trends.

Corps projects support numerous raptor species, including several sensitive, threatened, or endangered species. Special management considerations should be given to species in the above categories. Typically, raptor management concerns the manipulation of feeding or nesting habitats and the control of human disturbance. On Corps lands, raptor research may include one or more of the following options:

- (1) Continued research on identified areas of importance in order to monitor long-term population trends.
- (2) Surveys of additional Corps lands to determine raptor use and abundance.
- (3) Short-term, specific problem or impact research.

The Corps can accomplish these objectives by conducting the necessary surveys or research using project or District biologists, by cooperating in such studies with Federal or state wildlife agencies, or by contracting for studies with private individuals, consultants, consulting firms, or universities. In any case, primary considerations should be the available expertise, cost, potential adverse effects on the raptors and, ultimately, the improved management of raptors on Corps lands.

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PART VI: LITERATURE SURVEY

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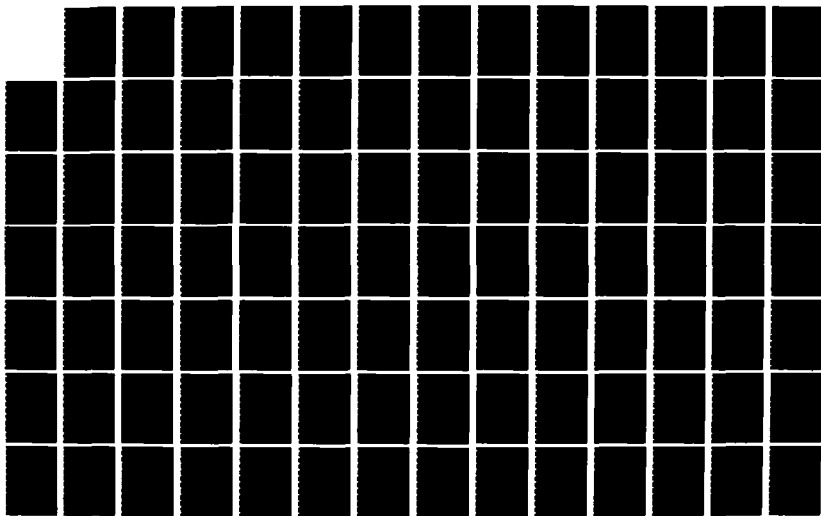
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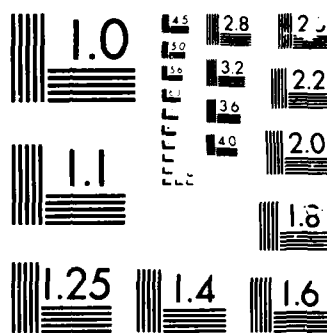
A SOURCE MANUAL OF RAPTORS OCCURRING ON CORPS OF
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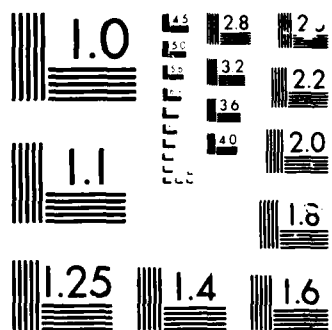
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WESTERN AND EASTERN SCREECH OWLS
Otus kennicottii (Elliot)
Otus asio (Linnaeus)

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